SEARCH REQUEST FORM

Scientific and Technical Informa	ation Center			
Requester's Full Name: Art Unit: 1653 Phone Number 308: 3213 Ser Mail Box and Bldg/Room Location: Results Forms	o7-17-03 er #: 71263 Date: ial Number: 09/836,636 at Preferred (circle): PAPER DISK E-MAIL			
Mail Box and Bldg/Room Location: Results Format Preferred (circle): PAPER DISK E-MAIL Mail Box: 9801; EXP Rm: 9805 If more than one search is submitted, please prioritize searches in order of need.				

<u>Title</u> : Macrocyclic NS-3 serine protease inhibitors of aryl alanine P2 moieties	Hepatitis C virus comprising alkyl and			
Applicants: Venkatraman, Srikanth; Chen, Kevin X.; Agirijavallabhan, viyyoor m.; ganguly, ashit k.; chan, thugh; prongay, andrew j.; madison, vincent s.;	Arasappan, ashok; njoroge, f. George; in-yau; mc kittrick, brian a.; yao, nanhua			
Earliest Priority Date: 4/19/00	ſ			

is a nitrogen atom, or else -CH-

R1 = anything;

R2 = anything; R3 = anything;

R4 = anything

Point of Contact P. Sheppard Telephone number: (703)-308=

STAFF USE ONLY	Type of Search	· ·		
Searcher:	NA Sequence (#)	STN		
Searcher Phone #:	AA Sequence (#)	Dialog		
Searcher Location:		Questel/Orbit		
Date Searcher Picked Up:	Bibliographic	Dr.Link		
Date Completed: 7/18/03	Litigation	Lexis/Nexis		
Searcher Prep & Review Time:	Fulltext	Sequence Systems		
Clerical Prep Time:	Patent Family	WWW/Internet		
Online Time:	Other	Other (specify)		

=> fil hcaplus FILE 'HCAPLUS' ENTERED AT 18:47:10 ON 18 JUL 2003 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 18 Jul 2003 VOL 139 ISS 4 FILE LAST UPDATED: 17 Jul 2003 (20030717/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

VAR G1=N/CH NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 13

STEREO ATTRIBUTES: NONE

=> =>

L79 6 SEA FILE=REGISTRY SSS FUL L73

L80 4 SEA FILE=HCAPLUS ABB=ON PLU=ON L79

=> d ibib abs hitrn 180 1-4

L80 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 1999:130413 HCAPLUS

DOCUMENT NUMBER: 130:18229

TITLE: Preparation of acid-cleavable bicyclic, nonaromatic

linker agents Hadley, Stephen

INVENTOR(S): PATENT ASSIGNEE(S): NeoRx Corporation, USA

U.S., 21 pp., Cont. of U.S. Ser. No. 589,579, SOURCE:

> abandoned. CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5874549	A	19990223	US 1993-118578	19930909
PRIORITY APPLN. INFO.	:	US	1990-589579	19900928
OTHER SOURCE(S):	MA	RPAT 130:182295	•	

GI

A bicyclic, non-arom. hydrocarbon compd. I [A = CH2, n = 1-3; A = 0, S, AΒ N-C1-6 alkyl, n = 1; m = 1, 2; R = H, OR1, SR1; R1 = ester moiety; Active agent = amino group-contg. therapeutic or diagnostic agent], acid-cleavably links an amide-contg. active agent to a targeting agent, which is linked by a linker arm to the bicyclic skeleton. Thus, alc. II (R2 = OH) (prepd. by sapon. and hydrogenolysis of the corresponding benzyl ether anhydride) was converted into mesylate II (R2 = MeSO3) and reacted with Boc-Cys-OMe to give sulfide II [R2 = (R)-BocNHCH(CO2Me)CH2S] (III). Acidic deprotection of III, followed by condensation with 6-maleimidocaproyl chloride, anhydride formation with DCC, and condensation with daunomycin gave drug conjugate IV.

220495-15-8P 220495-16-9P 220495-22-7P ΙT RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (prepn. of acid-cleavable bicyclic, nonarom. linker agents)

Ме

THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: 10 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L80 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 1991:20165 HCAPLUS

DOCUMENT NUMBER: 114:20165

Amino acid azolides and other isocyanate-forming TITLE:

compounds as leukocyte elastase inhibitors

Groutas, William C. INVENTOR(S):

PATENT ASSIGNEE(S): Wichita State University, USA

U.S., 9 pp. Cont.-in-part of U.S. Ser. No. 756,252, SOURCE:

> abandoned. CODEN: USXXAM

DOCUMENT TYPE:

Patent English

LANGUAGE: FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4929736 JP 62265221 PRIORITY APPLN. INFO.	A A2 :	19900529 19871118	US 1987-117531 JP 1986-168235 US 1985-756252 CA 1986-514030 JP 1986-168235	19871106 19860718 19850718 19860717 19860718

OTHER SOURCE(S): MARPAT 114:20165

Isocyanate-forming compds. such as amino acid azolides (I; R = isoPr, Pr, AB Bu, isoBu, isoamyl) and substituted succinimides (II; R1 = alkyl or aryl, L = OSO2R) act as specific inhibitors of leukocyte elastase are described. These compds. are activated by the enzyme with the formation of an isocyanate that reacts with the serine at the active site. These compds. are useful in the treatment of emphysema. L-N-(imidazol-1-ylcarbonyl) norvaline Me ester (III) was prepd. by the reaction of equimolar masses of imidazole and L-norvaline Me ester isocyanate in anhyd. ether under N with 96% yield. Inhibition tests on elastase showed it to be an effective inhibitor of human leukocyte elastase but less effective against porcine pancreatic elastase (k3/Ki = 500 and 6.3 M-1 s-1 resp.). Tests conducted in vivo on elastase inhibition by III using induction of emphysematous lesions in mouse lung by instillation of porcine pancreatic elastase as a model were conducted. Preliminary expts. showed that III was not toxic when applied intratracheally. Simutaneous instillation of elastase and III prevented the formation of lesions for up to 10 days. Addn. of elastase after instillation of III showed that the inhibitor was unstable in vivo. If elastase was added >1 h after administration of III then there was no inhibition of lesion formation.

IT 131187-31-0P

RL: PREP (Preparation)

(prepn. of, as elastase inhibitors, treatment of emphysema in relation

L80 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2003 ACS 1989:496676 HCAPLUS ACCESSION NUMBER:

111:96676

TITLE:

A method of preparing monosubstituted ureas as pharmaceutical and agrochemical intermediates

INVENTOR(S):

Henklein, Peter; Bergemann, Dagmar; Heyne, Hans

Ulrich; Halatsch, Wolf Rainer

PATENT ASSIGNEE(S):

Akademie der Wissenschaften der DDR, Ger. Dem. Rep.

SOURCE:

Ger. (East), 5 pp. CODEN: GEXXA8

DOCUMENT TYPE:

Patent

LANGUAGE:

German

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

DD 261781 A1 19881109 DD 1987-304600 19870703

PRIORITY APPLN. INFO.:

DD 1987-304600 19

OTHER SOURCE(S): CASREACT 111:96676; MARPAT 111:96676

GI For diagram(s), see printed CA Issue.

AB RNHCONH2 [I; R = alkoxycarbonylalkyl, heteroaryl, (un)substituted alkyl,

carboxyalkyl, aryl] were prepd. as pharmaceutical and agrochem. intermediates by room temp. ammonolysis of esters RNHCO2Q with aq. or gaseous NH3. PhCH2CH(NH2)CO2Et was stirred 30 min at 5.degree. and 30 min at room temp. with equimolar amt. of ClCO2Q in 40 mL CH2Cl2 to give crude PhCH2CH(CO2Et)NHCO2Q, which was dissolved in EtOAc and dry NH3 was bubbled through the stirred soln. to give 85% I [R = CH(CO2Et)CH2Ph]..

IT 121955-63-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. and ammonolysis of)

L80 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER:

1979:23040 HCAPLUS

DOCUMENT NUMBER:

90:23040

TITLE:

D-.alpha.-(2,4-Dioxo-1(or 3)-

imidazolidinylcarbonylamino)benzylpenicillins
·INVENTOR(S): Shibuya, Chisei; Ishii, Kunihiko; Ito, Hirataka

PATENT ASSIGNEE(S):

Asahi Chemical Industry Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 16 pp.

SOURCE:

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

GI

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
				
JP 53077083 PRIORITY APPLN. INFO.	A2:	19780708	JP 1976-150369 JP 1976-150369	19761216 19761216

AB Five antibacterial penicillins I (R = Me, Ac, Ph; R1 = Ph, p-hydroxyphenyl; Z or Z1 = O and the other = H2) or their esters were

prepd. by acylating ampicillin, amoxicillin, 6-aminopenicillinac acid, or their esters. Thus, 0.9 g II (R2 = H) heated with 1.7 g bis(trimethylsilyl)acetamide in MeCN, evapd. in vacuo, and stirred with 0.8 g COCl2 in dioxane gave 1.3 g II (R2 = COCl), which (1.2 g) was added to 2.0 g ampicillin in 80% aq. THF at 0.degree. while adjusting the pH at 7.5-8.0 with Et3N and the product treated with Na 2-ethylhexanoate to give 1.9 g I (R = Me, R1 = Ph, Z = O, Z1 = H2). Its pivaloyloxymethyl ester was prepd. from corresponding ampicillin ester.

IT 68471-48-7P

=> => fil reg FILE 'REGISTRY' ENTERED AT 18:47:22 ON 18 JUL 2003 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2003 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 17 JUL 2003 HIGHEST RN 550297-38-6 DICTIONARY FILE UPDATES: 17 JUL 2003 HIGHEST RN 550297-38-6

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details: http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> =>

=> d ide can 179 1-6

L79 ANSWER 1 OF 6 REGISTRY COPYRIGHT 2003 ACS

RN 220495-22-7 REGISTRY

CN Cysteine, N-[(2,5-dihydro-2,5-dioxó-1H-pyrrol-1-yl)carbonyl]-S[[(3aR,4R,7S,7aR)-1,4,7,7a-tetrahydro-1,3-dioxo-4,7-ethanoisobenzofuran-3a(3H)-yl]methyl]-, methyl ester, rel- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C20 H20 N2 O8 S

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Relative stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1957 TO DATE)

1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1: 130:182295

L79 ANSWER 2 OF 6 REGISTRY COPYRIGHT 2003 ACS

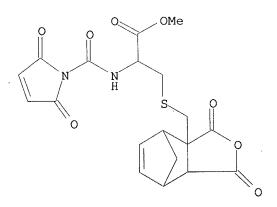
RN 220495-16-9 REGISTRY

CN L-Cysteine, N-[(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)carbonyl]-S[[(3a.alpha.,4.alpha.,7.alpha.,7a.alpha.)-1,4,7,7a-tetrahydro-1,3-dioxo4,7-methanoisobenzofuran-3a(3H)-yl]methyl]-, methyl ester (9CI) (CA INDEX NAME)

MF C19 H18 N2 O8 S

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1957 TO DATE)

1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1: 130:182295

L79 ANSWER 3 OF 6 REGISTRY COPYRIGHT 2003 ACS

RN 220495-15-8 REGISTRY

CN Bicyclo[2.2.1]hept-5-ene-2,3-dicarboxylic acid, 2-[[[2-[[(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)carbonyl]amino]-3-methoxy-3-oxopropyl]thio]methyl]-, (1R,2R,3R,4S)-rel- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C19 H20 N2 O9 S

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Relative stereochemistry.

$$\begin{array}{c|c}
R & CO_2H & MeO & O & O \\
\hline
R & R & CO_2H & MeO & O & O \\
\hline
R & CO_2H & MeO & O & O & O \\
\hline
R & CO_2H & MeO & O & O & O \\
\hline
R & CO_2H & MeO & O & O & O \\
\hline
R & CO_2H & MeO & O & O & O \\
\hline
R & CO_2H & MeO & O & O & O \\
\hline
R & CO_2H & MeO & O & O & O \\
\hline
R & CO_2H & MeO & O & O & O \\
\hline
R & CO_2H & MeO & O & O & O \\
\hline
R & CO_2H & MeO & O & O & O \\
\hline
R & CO_2H & MeO & O & O & O \\
\hline
R & CO_2H & MeO & O & O & O \\
\hline
R & CO_2H & MeO & O & O & O \\
\hline
R & CO_2H & MeO & O & O & O \\
\hline
R & CO_2H & MeO & O & O & O \\
\hline
R & CO_2H & MeO & O & O & O \\
\hline
R & CO_2H & MeO & O & O & O \\
\hline
R & CO_2H & MeO & O & O & O \\
\hline
R & CO_2H & MeO & O & O & O \\
\hline
R & CO_2H & MeO & O & O & O \\
\hline
R & CO_2H & MeO & O & O & O \\
\hline
R & CO_2H & MeO & O & O & O \\
\hline
R & CO_2H & MeO & O & O & O \\
\hline
R & CO_2H & MeO & O & O & O \\
\hline
R & CO_2H & MeO & O & O & O \\
\hline
R & CO_2H & MeO & O & O & O \\
\hline
R & CO_2H & MeO & O & O & O \\
\hline
R & CO_2H & MeO & O & O & O \\
\hline
R & CO_2H & MeO & O & O & O \\
\hline
R & CO_2H & MeO & O & O & O \\
\hline
R & CO_2H & MeO & O & O & O \\
\hline
R & CO_2H & MeO & O & O & O \\
\hline
R & CO_2H & MeO & O & O & O \\
\hline
R & CO_2H & MeO & O & O & O \\
\hline
R & CO_2H & MeO & O & O & O \\
\hline
R & CO_2H & MeO & O & O & O \\
\hline
R & CO_2H & MeO & O & O & O \\
\hline
R & CO_2H & MeO & O & O & O \\
\hline
R & CO_2H & MeO & O & O & O \\
\hline
R & CO_2H & MeO & O & O & O \\
\hline
R & CO_2H & MeO & O & O & O \\
\hline
R & CO_2H & MeO & O & O & O \\
\hline
R & CO_2H & MeO & O & O & O \\
\hline
R & CO_2H & MeO & O & O & O \\
\hline
R & CO_2H & MeO & O & O & O \\
\hline
R & CO_2H & MeO & O & O & O \\
\hline
R & CO_2H & MeO & O & O & O \\
\hline
R & CO_2H & MeO & O & O & O \\
\hline
R & CO_2H & MeO & O & O \\
\hline
R & CO_2H & MeO & O & O \\
\hline
R & CO_2H & MeO & O & O \\
\hline
R & CO_2H & MeO & O & O \\
\hline
R & CO_2H & MeO & O & O \\
\hline
R & CO_2H & MeO & O & O \\
\hline
R & CO_2H & MeO & O & O \\
\hline
R & CO_2H & MeO & O & O \\
\hline
R & CO_2H & MeO & O & O \\
\hline
R & CO_2H & MeO & O & O \\
\hline
R & CO_2H & MeO & O & O \\
\hline
R & CO_2H & MeO & O & O \\
\hline
R & CO_2H & MeO & O & O \\
\hline
R & CO_2H & MeO & O & O \\
\hline
R & CO_2H & MeO & O & O \\
\hline
R & CO_2H & MeO & O & O \\
\hline
R & CO_2H & MeO & O & O$$

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1957 TO DATE)

1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1: 130:182295

L79 ANSWER 4 OF 6 REGISTRY COPYRIGHT 2003 ACS

RN 131187-31-0 REGISTRY

CN L-Phenylalanine, N-[(2,5-dioxo-1-pyrrolidinyl)carbonyl]-, methyl ester

(9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C15 H16 N2 O5

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1957 TO DATE)

1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1: 114:20165

L79 ANSWER 5 OF 6 REGISTRY COPYRIGHT 2003 ACS

RN. 121955-63-3 REGISTRY

CN L-Phenylalanine, N-[(1,3,3a,4,7,7a-hexahydro-1,3-dioxo-4,7-methano-2H-isoindol-2-yl)carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 4,7-Methano-2H-isoindole, L-phenylalanine deriv.

FS STEREOSEARCH

MF C21 H22 N2 O5

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1957 TO DATE)

1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1: 111:96676

L79 ANSWER 6 OF 6 REGISTRY COPYRIGHT 2003 ACS

RN 68471-48-7 REGISTRY

CN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 6-[[[(3-acetyl-2,5-dioxo-1-imidazolidinyl)carbonyl]amino]phenylacetyl]amino]-3,3-dimethyl-7-oxo-, monosodium salt, [2S-[2.alpha.,5.alpha.,6.beta.(S*)]]- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C22 H23 N5 O8 S . Na

LC STN Files: CA, CAPLUS, TOXCENTER

Absolute stereochemistry.

Na

1 REFERENCES IN FILE CA (1957 TO DATE)

1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1: 90:23040